IN THE CLAIMS:

- 1-20. (Cancelled)
- 21. (Currently Amended) A medical apparatus, comprising:
- a body cavity inserting portion which is inserted into a body and which has a thrust-generating spiral projected portion in contact with a body cavity; and

rotating device for rotating the thrust-generating spiral projected portion, wherein

the rotating device includes:

a magnetic field generating device arranged outside the body for generating a rotating magnetic filed; and

a magnet arranged inside the body cavity inserting portion and driven to rotate by the rotating magnetic field;

the thrust-generating spiral projected portion is set to have a shape with a projection height from not less than 0.3 mm to not more than 3 mm; and

the rotating magnetic field is set to rotate at a rotating speed of not more than 5 Hz.

- 22. (Canceled)
- 23. (Previously Presented) The medical apparatus according to Claim 21, wherein the thrust-generating spiral projected portion is formed in a multi-spiral screw shape having not less than 2 spirals.
- 24. (Previously Presented) The medical apparatus according to Claim 21, wherein the thrust-generating spiral projected portion has a cross sectional shape of at least one of a circle, a semicircle and a generally R shape.

- 25. (Previously Presented) The medical apparatus according to Claim 21, wherein the thrust-generating spiral projected portion is non-continuously formed.
 - 26. (Canceled)
- 27. (Previously Presented) The medical apparatus according to Claim 21, wherein the body cavity inserting portion is a capsule medical apparatus.
- 28. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the body cavity inserting portion includes a flexible stick portion; and
the thrust-generating spiral projected portion is supported rotatably with
respect to the flexible stick portion.

29-30. (Canceled)

31. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the thrust-generating spiral projected portion is formed in a multi-spiral screw shape having not more than 10 spirals.

32. (Previously Presented) The medical apparatus according to Claim 21, wherein:

a torque generated by the rotating device is set so as not to surpass a set value.

- 33. (Previously Presented) The medical apparatus according to Claim 32, wherein a set value for the torque generated by the rotating device is configured to be arbitrarily settable.
- 34. (Previously Presented) The medical apparatus according to Claim 32, wherein the set value is set to from not less than 0.06 cNm to not more than 1 cNm.

- 35. (Previously Presented) The medical apparatus according to Claim 34, wherein the body cavity inserting portion is a capsule medical apparatus.
- 36. (Currently Amended) The medical apparatus according to Claim 21, wherein:

at least one of a rising angle and a failing falling angle at an end portion of the thrust-generating spiral projected portion is smoothly formed at an angle not more than 45 degrees.

37. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the thrust-generating spiral projected portion has an outer diameter of not more than 18 mm.

38. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the thrust-generating spiral projected portion has at least one groove formed along the spiral of the thrust-generating spiral projected portion, the groove having a depth smaller than a height of the thrust-generating spiral projected portion.

39. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the thrust-generating spiral projected portion is detachably attached to the body cavity inserting portion.

40. (Previously Presented) The medical apparatus according to Claim 39, wherein the thrust-generating spiral projected portion is formed of elastic rubber.

41. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the thrust-generating spiral projected portion has a generally trapezoidal cross sectional shape.

42. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the thrust-generating spiral projected portion has a spiral pitch which is set to not less than 10 mm.

43. (Previously Presented) The medical apparatus according to Claim 21, wherein:

a center of gravity of the body cavity inserting portion substantially matches a longitudinal central axis of the body cavity inserting portion.

44-46. (Canceled)

47. (New) the medical apparatus according to claim 21, wherein the thrust-generating spiral projected portion is set to have a shape with a projection height from not less than 0.3 mm to not more than 2 mm.